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Product Data Sheet

SIMATIC Flat Panel Monitors

The Flat Panels are rugged industry-standard LCD monitors.

- Design of front panels:
  - 12", 15", 17" and 19" TFT Touch
  - 12" and 15" TFT Key
- Installation:
  - They are equally suited to installation in the machine, in control cabinets, consoles and gantries or in 19" racks.
  - As a device with all-round IP65 protection for mounting on a supporting arm/supporting foot
- Type of operator control:
  - Simple display devices without operator functionality
  - Optional devices with touch control
  - Rear connection of I/O devices (optional)

Design

- Rugged aluminum front
- TFT display in following sizes:
  - 12" / 800 x 600 pixels
  - 15" / 1024 x 768 pixels
  - 17" / 1280 x 1024 pixels
  - 19" / 1280 x 1024 pixels
- 256K up to 16 million colors
- Anti-glare and hardened mineral glass screen
- Basic display or touch screen option
- 24 V DC power supply, also optional with 100-240 V AC (50/60 Hz)
- Can be located up to 5 m from the computing unit

The following are included in the scope of supply of the built-in units:

- 24 V connection plug
- Power supply cable (Europe) for version with AC power pack (power supply cables for other countries can be ordered as an accessory)
- VGA connection cable 1.8 m (other cable lengths and DVI cable available separately as accessories)
- USB Touch connection cables for Touch devices (other cable lengths available separately as accessories)
- Latch fastener
- Operating instructions, 2 languages (German and English)
- CD-ROM with hardware drivers and documentation

The following are included in the scope of supply of the PRO devices:

- 24 V connection plug
- Power supply cable (Europe) (power supply cables for other countries can be ordered as an accessory)
- Operating instructions, 2 languages (German and English)
- CD-ROM with hardware drivers and documentation

Special functions of extended version

- Can be located up to 30 m from the computing unit
- Two rear USB interfaces
- Dimmable backlit display
- Combined AC and DC power supply
- EX22 approval for 17" and 19" devices
- Marine approvals

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Technical specifications SIMATIC Flat Panels

Type	Flat Panel 12"	Flat Panel 15"	Flat Panel 17"/19"
General features			
Can be separate from the computer	Optional up to 30 m	Optional up to 30 m	Optional up to 30 m
On-screen display (OSD) configuration	Yes	Yes	Yes
Anti-glare and hardened mineral glass screen	Yes	Yes	Yes
Line side switch	No	No	No
DC power supply	24 V	24 V	24 V
AC power supply (optional)	110/230V AC	110/230V AC	110/230V AC
Frequency/power consumption	47 – 63 Hz/25 VA	47 – 63Hz/25 VA	47 – 63Hz/55 VA
Ambient conditions			
Degree of protection according to EN 60 529	IP65 / NEMA4	IP65 / NEMA4	IP65 / NEMA4
Vibration load during operation	1 *g* (10 m/s2)	1 *g* (10 m/s2) / 1 *g* (10 m/s2) 1)	1 *g* (10 m/s2)
Shock load during operation	5 *g* (50 m/s2)	5 *g* (50 m/s2)	5 *g* (50 m/s2)
EMC	CE	CE	CE
Ambient temperature during operation	5 to +50°C	5 to +50 °C/5 to +45 °C	5 to +45 °C
Certifications and standards			
Certification	cULus (UL 508), NEMA 4/ cULus, (UL508), Enclosure Type 4tested	cULus (UL 508), NEMA 4/ cULus, (UL508), Enclo-sure Type 4tested	cULus (UL 508), NEMA 4/ cULus, (UL508), Enclo-sure Type 4 tested
EMC	CE EN 55011 class A	CE EN 55011 class A	CE EN 55011 class A
Display			
Screen diagonal in inches	12" TFT	15" TFT	17"/19" TFT
Optimum resolution (pixels)	800 x 600	1024 x 768	1280 x 1024
Brightness/contrast (typical)	> 370 cd/m2 / 450:1	> 260 cd/m2 / 350:1	> 300 cd/m2 / 300:1
Viewing angle (H x V)	120° x 70°	100° x 90°	170° x 170°
Number of colors	262 K	16.7 million	16.7 million
MTBF of backlighting (at 25 °C)	50,000 h	50,000 h	50,000 h
Operator controls			
Touch screen	analog-resistive, optional	analog-resistive, optional	analog-resistive, optional
Numeric/alphabetic input	Yes	Yes	No

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Type	Flat Panel 12"	Flat Panel 15"	Flat Panel 17"/19"
Interfaces			
Standard VGA interface (15-pin SUB-D)	Yes	Yes	Yes
Digital DVI-D interface	Yes	Yes	Yes
USB interface (V1.1) for touch screen	Optional	Optional	Optional
Degree of protection			
Front side according to EN 60529	IP 65	IP 65	IP 65
Rear side according to EN 60529	IP 20	IP 20	IP 20
Dimensions			
External dimensions W x H x D (mm)	400 x 310 x 61.5	483 x 310 x 54 / 483 x 310 x 91	483 x 400 x 56
Panel cut-out/depth W x H x D (mm)	368 x 290 x 51 (Touch) 450 x 290 x 49 (Key)	450 x 290 x 55 (Touch) 450 x 321 x 49 (Key)	450 x 380 x 57
Weight (kg)	5.0	6.4 / 6.7 (without adapter)	10.2 kg

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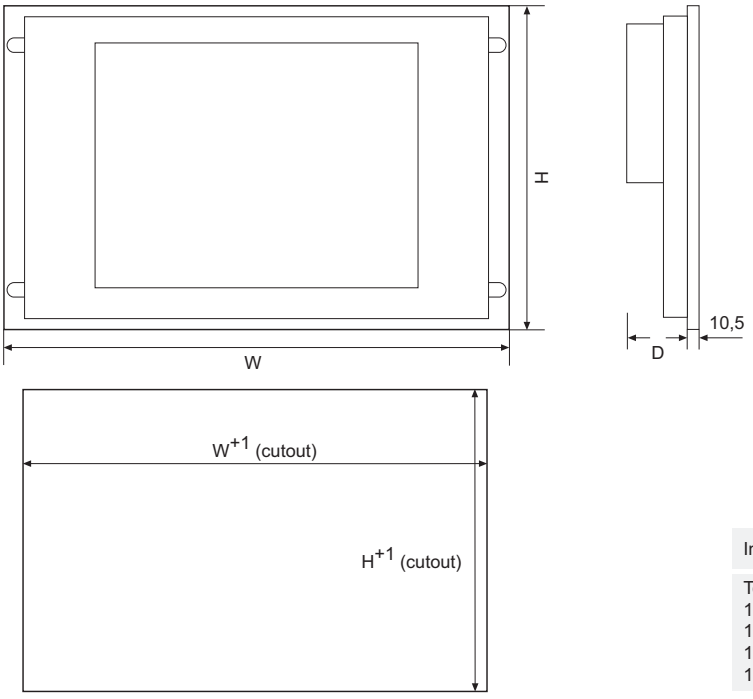
Dimensional drawings



Front dimensions	W	H
Touch panels		
12"	400	310
15"	483	310
17"	483	400
19"	483	400

Installation cutout	W+1	H+1	D
Touch panels			
12"	368	290	51
15"	450	290	55
17"	450	380	57
19"	450	380	57

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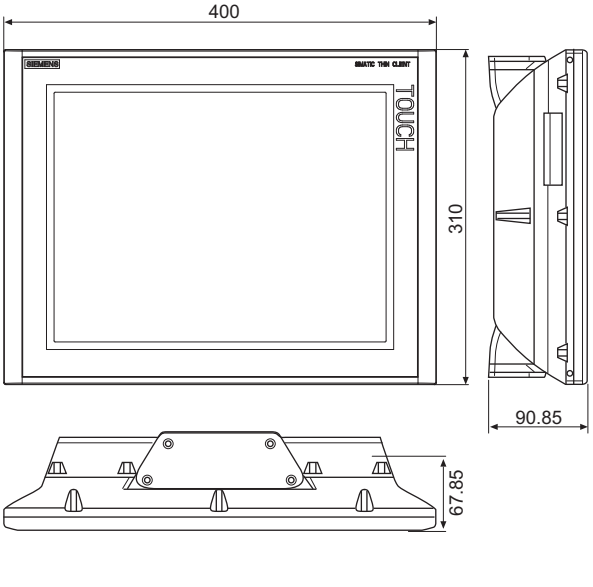
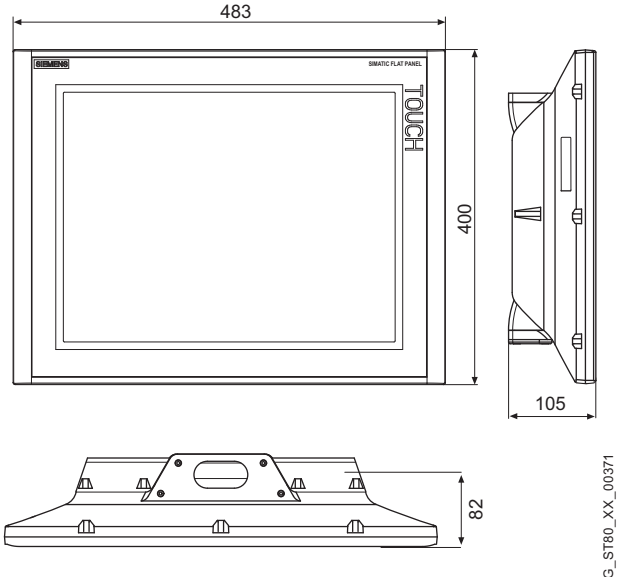
Installation cutout for Flat Panel



Flat Panel PRO 15" Touch



Flat Panel PRO 19" Touch

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SIMATIC PC – the more Industrial PC	
More information on SIMATIC PC is available at:	www.siemens.com/simatic-pc
The optimum configuration for your application:	www.siemens.com/ipc-configurator
In-depth information is available in the SIMATIC manuals:	www.siemens.com/simatic-doku
Information material for download:	www.siemens.com/simatic/printmaterial
Technical documentation is available in our Service& Support portal:	www.siemens.com/automation/support
Your personal contact partner is listed at:	www.siemens.com/automation/partner
Electronic ordering via the Internet with the A&D Mall:	www.siemens.com/automation/mall
Online Service Tool PED – for fast information on the equipment of your SIMATIC PC and the management of your field inventory:	www.siemens.com/ped
After-sales support for SIMATIC PCs:	www.siemens.com/ipc-asis

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